BRUHAT BANGALORE MAHANAGARA PALIKE

BYATARAYANAPURA DIVISION

E-BILL FOR THE WORK: IMPROVEMENTS TO ROADS, DRAINS AND CUNSTRUCTIONS OF CULVERTS AT HOODI LAYOUT, AND SURROUINDING AREAS IN WARD NO.09, AMRUTHAHALLI.

WORK ORDER NO: BBMP/EE/BTP/WO/158/2022-23

DATE : 10/03/2023

ESTIMATE COST: Rs. 55.00 Lakhs

Job Code No:009-23-000012

KODIGEHALLI SUB DIVISION

E - BILL

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK :- IMPROVEMENTS TO ROADS, DRAINS AND CUNSTRUCTIONS OF CULVERTS AT HOODI LAYOUT, AND SURROUINDING AREAS IN WARD NO.09, AMRUTHAHALLI.

NAME OF AGENCY : M/s. S. S. Road Developers, Prop.: A. S. Mani.

Estimated cost : Rs 55.00 Lakhs

WORK ORDER NO : BBMP/EE/BTP/WO/158/2022-23 Dt: 10-03-2023

WORK CODE : 009-23-000012

FIRST AND FINAL BILL

Sl no	Discription of items	No	L	B	D	Qty	Rate	Amount
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. In all kind of soils Depth upto 1.5m (P.No.5-I.No.1.4.1)& of PWD SR 21-22 Vol-1							
	Qty As Per P/M Vide Item No 1. Page no. 1					215.67		
				Ltd to		211.68	175.96	37247.21
						Cum		
2	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.(P.No.15-I.No.2.1.3)& of							
	Qty As Per P/M Vide Item No 2. Page no. 1 to 2					43.36		
				Ltd to		42.47	5254.08	223140.78
						Cum		
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. **M20** (The cost of steel reinforcement & formwork to be paid separately) (PWD SR 2021-22 V-1 P.NO. 17 I.NO.2.4.2)							

A	**RCC drain bottom concrete**							
a	1st Cross Hoodi Layout R/s	1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	2.00	0.90	0.15	0.27		
	L/s	1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	2.50	0.90	0.15	0.34		
b	At 5th Cross R/s	1	30.00	0.90	0.15	4.05		
		1	30.00	0.90	0.15	4.05		
		1	18.20	0.90	0.15	2.46		
	L/s	1	26.10	0.90	0.15	3.52		
c	5th Cross left side drain bottom correction	1	30.00	0.70	0.10	2.10		
		1	25.00	0.70	0.10	1.75		
	R/s	1	29.00	0.70	0.10	2.03		
		1	27.40	0.70	0.07	1.34		
d	Culvert At Cross Rd	1	5.50	1.50	0.25	2.06		
						40.17		
B	**Side walls**							
a	1st Cross Hoodi Layout R/s	2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	2.00	0.15	0.60	0.36		
		2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	2.50	0.15	0.60	0.45		
b	At 5th Cross R/s	2	30.00	0.15	0.60	5.40		
		2	30.00	0.15	0.60	5.40		
		2	18.20	0.15	0.60	3.28		
	L/s	2	26.10	0.15	0.60	4.70		
c	for drain levelling	2	29.00	0.15	0.25	2.18		
		2	26.00	0.15	0.25	1.95		
		2	24.00	0.15	0.25	1.8		
		2	22.00	0.15	0.20	1.32		
		2	25.00	0.15	0.25	1.88		
	Culvert At Cross Rd	2	5.50	0.30	0.75	2.48		
						52.78		
				Total Qty		**92.95**		
				Ltd to		**92.81**	**5928.01**	**550178.61**
						Cum		

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

27.03.2023

03/04/23

03.04.2023

4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub structure complete as per Drawing and Technical Specifications. (P.No. 99, Sl.No. 13.1 Vol -3, 2021-22) Issue Rate w.e.f 07/07/2022							
	Qty As Per P/M Vide Item No 4. Page no. 2 to 3					**4.94**	**87192.82**	**430732.53**
						M-Tonn		
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) Mix 1:2:4 (M15) (PWD SR 2021-22 Vol- I Pg.no. 17 Item no. 2.4.1)							
	Ramp for Culvert	2	5.50	1.10	0.15	**1.82**		
				LTD TO SQ		**1.80**	**5562.48**	**10012.46**
						Cum		
6	Providing & Fixing **RCC Precast cover slab of 100mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer incharge . (Approved Data Rate)							
	1st Cross Hoodi Layout ((W0330)	1	30.00	0.90		27.00		
	L/S	1	30.00	0.90		27.00		
		1	2.00	0.90		1.80		
	R/s	1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	2.50	0.90		2.25		
	5th Cross Road R/s (W0332)	1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	18.20	0.90		16.38		
	L/s	1	26.10	0.90		23.49		
	5th Cross missing slabs	1	13.00	0.90		11.70		
		1	12.00	0.90		10.80		
		1	15.00	0.90		13.50		
		1	11.00	0.90		9.90		
						251.82		
				Ltd to		**251.73**	**2009.82**	**505931.98**
						Sqm		

Cuts

10/4

Assistant Executive Engineer
Audugodi Sub Division
BBMP, Bangalore

18.04.2023

7	Providing & Fixing **RCC Precast cover slab of 230mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer incharge . (Approved Data Rate)							
	FOR CULVERTS							
		1	5.50	1.20	-	6.60		
						6.60		
				Ltd to SQ		**6.00**	**4659.48**	**27956.88**
						Sqm		
8	Wet mix macadam (Plant Mix Method) Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. (P.No. 24, Sl.No.4.27, Vol-3, SR2021-22)							
	Qty As Per P/M Vide Item No 8. Page no. 3					244.68		
				LTD TO SQ		**235.80**	**2264.72**	**534020.98**
						Cum		
9	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (P.No. 29, Sl.No.5.1, Vol-3, SR2021-22) Issue Rate w.e.f 07/07/2022							
	Qty As Per P/M Vide Item No 9. Sheet Page no. 4					**966.70**		
				LTD TO SQ		**943.20**	**39.73**	**37473.34**
						Sqm		
10	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects. (P.No. 33, Sl.No.5.12 C, Vol-3, SR2021-22) Issue Rate w.e.f 07/07/2022							
	Qty As Per P/M Vide Item No 10. Sheet Page no. 4 to 5					**48.05**		
				LTD TO SQ		**47.16**	**8645.49**	**407721.31**
						Sqm		
11	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom (P.No. 29, Sl.No.5.4, Vol-3, SR2021-22) Issue Rate w.e.f 07/07/2022							
	Qty As Per P/M Vide Item No 11. Page no. 5					**2314.43**		
				LTD TO SQ		**2305.50**		

	qty upto 125%					1181.25	13.24	15639.75
	Qty above 125%					1124.25	13.24	14885.07
						Sqm		
2	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (P.No. 36, Sl.No.5.16 C, Vol-3, SR2021-22) Issue Rate w.e.f 07/07/2022							
a	**5th cross Hoodi layout (W 0312)**							
	(4.50+5.60)/2=5.05	1	30.00	5.05	0.04	6.06		
	(5.60+5.20)/2=5.40	1	30.00	5.40	0.04	6.48		
	(5.20+5.10)/2=5.15	1	13.20	5.15	0.04	2.72		
b	**cross road (W 0373)**							
	(5.40+5.50)/2=5.45	1	30.00	5.45	0.04	6.54		
	(5.50+5.50)/2=5.50	1	30.00	5.50	0.04	6.60		
	(5.50+5.50)/2=5.50	1	30.00	5.50	0.04	6.60		
	(5.50+5.70)/2=5.60	1	30.00	5.60	0.04	6.72		
	(5.70+5.50)/2=5.60	1	30.00	5.60	0.04	6.72		
	(5.50+5.00)/2=5.30	1	30.00	5.30	0.04	6.36		
	(5.50+5.60)/2=5.55	1	31.00	5.55	0.04	6.88		
c	**at AMURTH HALLI MAIN Rd**							
	near Aswath katte							
	(4.40+3.60)/2=4.00	1	30.00	4.00	0.04	4.80		
	(3.60+3.40)/2=3.50	1	19.00	3.50	0.04	2.66		
	(3.40+3.90)/2=3.65	1	30.00	3.65	0.04	4.38		
	(3.90+3.60)/2=3.75	1	14.30	3.75	0.04	2.15		
	SLV Vidyaneketana school rd		**93.30**					
		1	7.50	7.90	0.04	2.37		
	(4.80+5.30)/2=5.05	1	28.50	5.45	0.04	6.21		
	(5.30+6.60)/2=5.45	1	30.00	5.45	0.04	6.54		
	(6.60+8.30)/2=7.45	1	6.00	7.45	0.04	1.79		
			72.00			**92.58**		
	deduct for man hole	8	3.14	0.36	0.04	0.36		
						92.22		
					Ltd to	**92.22**		
	qty upto 125%					**47.25**	**10038.01**	**474295.973**
	Qty above 125%					**44.97**	**10291.53**	**462810.10**
						Cum		

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

28.04.2023

3	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. (P.No. 57, I.No. 8.15, Vol-3, SR2021-22) Issue Rate w.e.f							
a	at 5th cross Hoodi layout							
		2	30.00	0.10		6.00		
		2	30.00	0.10		6.00		
		2	13.20	0.10		2.64		
b	5th cross left side cross road							
		2	30.00	0.10		6.00		
		2	30.00	0.10		6.00		
		2	30.00	0.10		6.00		
		2	30.00	0.10		6.00		
		2	30.00	0.10		6.00		
		2	30.00	0.10		6.00		
		2	31.00	0.10		6.20		
c	at AMURTH HALLI MAIN Rd							
	near Aswath katte							
		2	30.00	0.10		6.00		
		2	19.00	0.10		3.80		
		2	30.00	0.10		6.00		
		2	14.30	0.10		2.86		
	SLV Vidyaneketana school rd							
		2	7.50	0.10		1.50		
		2	28.50	0.10		5.70		
		2	15.00	0.10		3.00		
						85.70		
				LTD TO SQ		**85.60**		
	qty upto 125%					52.50	**452.19**	**23739.98**
	Qty above 125%					33.10	**452.19**	**14967.49**
						Sqm		
4	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 5.5 m3). (KWPD 2021-22, Vol-III, Item No.1.1 C, Page No.3)							
	Qty = 90% of Item no E2		450.30*90%			405.27		
				Ltd to SQ		**381.81**	**70.00**	**26726.70**
						Cum		
15	Cost of Haulage Excluding Loading and Unloading taking output 18 t Load and lead 10 km = 180.t.km (PWD SR 2021-22 Vol-III Page No.3, Item No. 1.4B)							
	Qty As Per It no 14					381.81		

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

05.06.2023

	qty =381.81*1.28*9.8 =4789.42 t-km			Ltd to SQ		4789.42	10.32	49426.81
						T.Km		
C1	Removing and resetting of footpath slab of drain (Approved rate)							
	Qty As Per P/M Vide Item No E1. Page no. 5 to 6					657.15		
				LTD TO SQ		639.00	202.10	129141.90
						Sqm		
C2	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. (PWD SR 2021-22 Vol- I Pg.no. 8 Item no. 1.12)							
	Qty As Per P/M Vide Item No E2. Page no,					454.97		
				LTD TO SQ		450.30	61.49	27688.95
						Cum		
							SUB TOTAL Rs.	4003738.81
							GST 18%	720673.00
							GRAND TOTAL Rs.	4724411.81

4003000.00
720540.00
4723540.00

ERTIFICATE

1	The contractor has done the work satisfactorly.
2	The contractor has removed the all debris from work spots.
3	This area comes under BBMP limits.

09.06.2023

er Asst. Engineer
Ward No.09, Amruthahalli

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK :- IMPROVEMENTS TO ROADS, DRAINS AND CUNSTRUCTIONS OF CULVERTS AT HOODI LAYOUT, AND SURROUINDING AREAS IN WARD NO.09, AMRUTHAHALLI.

NAME OF AGENCY : M/s. S. S. Road Developers, Prop.: A. S. Mani.

Estimated cost : Rs 55.00 Lakhs

WORK ORDER NO : BBMP/EE/BTP/WO/158/2022-23 Dt: 10-03-2023

WORK CODE : 009-23-000012

PRE MEASUREMENT

Discription of items	No	L	B	D	Qty	Rate	Amount
Earth work excavation by manual means for **drains,canals, waste weir, draft, approach channels,**							
Pre Measurement Recorded on:							
1st Cross Hoodi Layout L/s	1	30.00	1.00	0.95	28.50		
	1	30.00	1.00	0.90	27.00		
	1	2.00	1.00	0.90	1.80		
R/s	1	30.00	1.00	0.90	27.00		
	1	30.00	1.00	0.90	27.00		
	1	2.50	1.00	0.90	2.25		
At 5th Cross R/s	1	30.00	1.00	0.90	27.00		
	1	30.00	1.00	0.90	27.00		
	1	18.20	1.00	0.90	16.38		
L/s	1	26.10	1.00	0.90	23.49		
Culvert	1	5.50	1.50	1.00	8.25		
					215.67		
					Cum		

16.03.2023

Asst. Engineer
Ward No.09 Amruthahalli

16/12/23

Asst. Executive Engineer
Kodigehalli sub Division
Bangalore

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

PRE MEASUREMENT

Providing and laying in position **plain cement concrete Mix 1:3:6 (M10)** for levelling

Pre Measurement Recorded on:							
1st Cross Hoodi Layout L/s	1	30.00	1.00	0.15	4.50		
	1	30.00	1.00	0.15	4.50		
	1	2.00	1.00	0.15	0.30		
R/s	1	30.00	1.00	0.15	4.50		
	1	30.00	1.00	0.15	4.50		
	1	2.50	1.00	0.15	0.38		
At 5th Cross R/s	1	30.00	1.00	0.15	4.50		
	1	30.00	1.00	0.15	4.50		
	1	18.20	1.00	0.15	2.73		

30.41

L/s	1	26.10	1.00	0.15	3.92		
5th Cross left side drain bottom for ope correction	1	30.00	0.70	0.10	2.10		
	1	25.00	0.70	0.10	1.75		
R/s	1	29.00	0.70	0.10	2.03		
	1	27.40	0.70	0.10	1.92		
Culvert At Cross Rd	1	5.50	1.50	0.15	1.24	12.96	
					43.36		
					Cum		

10.03.2023

Asst. Engineer
Ward No.09 Amruthahalli

Asst. Executive Engineer
Kodigehalli sub Division
Bangalore

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

PRE MEASUREMENT							
Supplying, Fitting and Placing un-coated **TMT bar Reinforcement**							
Pre Measurement Recorded on:							
10mm dia Main Bars @15cm C/C For Bed &Side Walls							
1st Cross S/side 0.70+0.85+0.70=2.25							
R/s 62.00/0.125=414	496	2.10	0.62		645.79		
L/s 62.5.00/0.15=417	500	2.10	0.62		651.00		
5th Cross R/s 78.20/0.15=522	625.6	2.10	0.62		814.53		
L/s 26.10/0.15=174	208.8	2.10	0.62		271.86		
At 5th Cross road	6	29.00	0.62		107.88		
	6	26.00	0.62		96.72		
	6	24.00	0.62		89.28		
	6	22.00	0.62		81.84		
	6	25.00	0.62		93.00		
Horizontal Bars							
1st cross L/s	12	30.00	0.62		223.20		
	12	30.00	0.62		223.20		
	12	2.00	0.62		14.88		
1st Cross R/s	12	30.00	0.62		223.20		
	12	30.00	0.62		223.20		
	12	2.50	0.62		18.60		
At 5th Cross R/s	12	30.00	0.62		223.20		
	12	30.00	0.62		223.20		
	12	18.20	0.62		135.41		
L/s	12	26.10	0.62		194.18		
5th cross fo raising wall	193.3	0.30	0.62		35.96		
	173.3	0.30	0.62		32.24		
	160	0.30	0.62		29.76		
	146.7	0.30	0.62		27.28		
	166.7	0.30	0.62		31.00		
For Culvert					**4710.41**		

Raft 12mm dia at 15cm C/C							
0/0.15=37	2	37	2.25	0.89	148.19		
tribuition rods 10mm dia at 15cm C/C							
	1	23	5.50	0.62	78.43		
				Kgs	**4937.03**		
				/1000	**4.94**		
					M-Tonn		

24.03.2023

Asst. Engineer
Ward No.09 Amruthahalli

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Asst. Executive Engineer
Kodigehalli sub Division
Bangalore

PRE MEASUREMENT							
Wet mix macadam (Plant Mix Method) Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the							
Pre Measurement Recorded on:							
5th cross Hoodi Layout (W0373)							
L/s	1	30.00	1.15	0.25	8.63		
	1	30.00	1.20	0.25	9.00		
	1	30.00	1.10	0.25	8.25		
	1	30.00	1.20	0.25	9.00		
	1	26.00	1.25	0.25	8.13		
R/s	1	30.00	1.20	0.25	9.00		
	1	30.00	1.15	0.25	8.63		
	1	30.00	1.10	0.25	8.25		
	1	30.00	1.20	0.25	9.00		
	1	26.00	1.15	0.25	7.48		
Damaged portion	1	25.00	5.50	0.25	34.38		
	1	30.00	5.60	0.25	42.00		
	1	10.00	5.60	0.25	14.00		
5th cross Hoodi Layout (W0312)							
L/s	1	30.00	1.15	0.25	8.63		
	1	30.00	1.20	0.25	9.00		
	1	12.00	1.30	0.25	3.90		
					0.00		
R/s	1	30.00	1.20	0.25	9.00		
	1	30.00	1.30	0.25	9.75		
	1	14.00	1.20	0.25	4.20		
SLV Vidyaneketana school rd	2	30.00	0.90	0.15	8.10		
	2	19.00	0.85	0.15	4.85		
	2	30.00	0.90	0.15	8.10		
	2	14.30	0.80	0.15	3.43		
					244.68		
					Cum		

20.04.2023

Asst. Engineer
Ward No.09 Amruthahalli

Asst. Executive Engineer
Kodigehalli sub Division
Bangalore

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

PRE MEASUREMENT

Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the

Pre Measurement Recorded on:

at 5th cross Hoodi Layout(W0373)							
R/s	1	30.00	1.10		33.00		
	1	30.00	1.20		36.00		
	1	30.00	1.25		37.50		
	1	30.00	1.20		36.00		
	1	26.00	1.10		28.60		
L/s	1	30.00	1.20		36.00		
	1	30.00	1.15		34.50		
	1	30.00	1.20		36.00		
	1	30.00	1.25		37.50		
	1	26.00	1.20		31.20		
Damaged portion	1	25.00	5.50		137.50		
	1	30.00	5.60		168.00		
	1	10.00	5.60		56.00		
5th cross Hoodi Layout(W0312)							
N/side	1	30.00	1.20		36.00		
	1	30.00	1.20		36.00		
	1	12.00	1.20		14.40		
	1	30.00	1.20		36.00		
	1	30.00	1.20		36.00		
	1	10.00	1.20		12.00		
profile correction SVN school road	1	25.00	1.80		45.00		
	1	15.00	1.70		25.50		
	1	10.00	1.80		18.00		
					966.70		
					Sqm		

24.04.2023

Asst. Engineer
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Assistant Executive Engineer
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BBMP, Bangalore

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Kodigehalli sub Division
Bangalore

PRE MEASUREMENT

Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per

Pre Measurement Recorded on:

at 5th cross Hoodi Layout(W0373)							
R/s	1	30.00	1.10	0.05	1.65		
	1	30.00	1.20	0.05	1.80		
	1	30.00	1.25	0.05	1.88		
	1	30.00	1.20	0.05	1.80		
	1	26.00	1.10	0.05	1.43		
L/s	1	30.00	1.20	0.05	1.80		
	1	30.00	1.15	0.05	1.73		
	1	30.00	1.20	0.05	1.80		
	1	30.00	1.25	0.05	1.88		
	1	26.00	1.20	0.05	1.56		
Damaged portion	1	25.00	5.50	0.05	6.88		

	1	30.00	5.60	0.05	8.40		
	1	10.00	5.60	0.05	2.80		
cross Hoodi Layout(W0312)							
N/side	1	30.00	1.20	0.05	1.80		
	1	30.00	1.20	0.05	1.80		
	1	12.00	1.20	0.05	0.72		
	1	30.00	1.20	0.05	1.80		
	1	30.00	1.20	0.05	1.80		
	1	10.00	1.20	0.05	0.60		
profile correction SVN school road	1	25.00	1.80	0.05	2.25		
	1	15.00	1.70	0.05	1.28		
	1	10.00	1.80	0.05	0.90		
					48.34		
Deduct for MAN HOLE	5	3.14	0.36	0.05	0.28		
					48.05		
					Cum		

24.04.2023

Asst. Engineer
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BBMP, Bangalore

PRE MEASUREMENT

Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface

Pre Measurement Recorded on:

5th cross Hoodi layout (WO373)							
(4.50+5.60)/2=5.05	1	30.00	5.05		151.50		
(5.60+5.20)/2=5.40	1	30.00	5.40		162.00		
(5.20+5.10)/2=5.15	1	13.20	5.15		67.98		
cross road (W0							
(5.40+5.50)/2=5.45	1	30.00	5.45		163.50		
(5.50+5.50)/2=5.50	1	30.00	5.50		165.00		
(5.50+5.50)/2=5.50	1	30.00	5.50		165.00		
(5.50+5.70)/2=5.60	1	30.00	5.60		168.00		
(5.70+5.50)/2=5.60	1	30.00	5.60		168.00		
(5.50+5.00)/2=5.30	1	30.00	5.30		159.00		
(5.50+5.60)/2=5.55	1	31.00	5.55		172.05		
at AMURTH HALLI MAIN Rd							
near Aswath katte							
(4.40+3.60)/2=4.00	1	30.00	4.00		120.00		
(3.60+3.40)/2=3.50	1	19.00	3.50		66.50		
(3.40+3.90)/2=3.65	1	30.00	3.65		109.50		
(3.90+3.60)/2=3.75	1	14.30	3.75		53.63		
SLV Vidyaneketana school rd							
	1	7.50	7.90		59.25		
(4.80+5.30)/2=5.05	1	28.50	5.45		155.33		
(5.30+6.60)/2=5.45	1	30.00	5.45		163.50		
(6.60+8.30)/2=7.45	1	6.00	7.45		44.70		
					2314.43		
					Sqm		

28.04.2023

Asst. Engineer
Ward No.09 Amruthahalli

Asst. Executive Engineer
Kodigehalli sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

PRE MEASUREMENT							
Removing and resetting of footpath slab of drain (Approved rate)							
Pre Measurement Recorded on:							
Hoodi Layout at 5th Cross L/Side	1	30.00	1.05		31.50		
	1	28.00	0.90		25.20		
	1	25.00	1.05		26.25		
	1	30.00	0.90		27.00		
	1	30.00	1.05		31.50		
	1	20.00	1.05		21.00		
	1	30.00	0.90		27.00		
	1	8.00	0.90		7.20		
	1	8.00	0.90		7.20		
R/s	1	30.00	0.90		27.00		
	1	28.00	1.05		29.40		
	1	25.00	0.90		22.50		
	1	30.00	1.05		31.50		
	1	30.00	0.90		27.00		
	1	20.00	0.90		18.00		
	1	30.00	1.05		31.50		
	1	16.00	0.90		14.40		
school road	2	30.00	0.90		54.00		
	2	30.00	0.90		54.00		
	2	30.00	0.90		54.00		
	2	30.00	0.90		54.00		
	2	20.00	0.90		36.00		
					657.15		
					Sqm		

Asst. Engineer
Ward No.09 Amruthahalli
14.04.2023

Asst. Executive Engineer
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BBMP, Bangalore

PRE MEASUREMENT

Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm

Pre Measurement Recorded on:

Drain Desilting						
5th cross Hoodi Layout (W0373)	1	30.00	0.60	0.60	10.80	
L/s	1	30.00	0.60	0.65	11.70	
	1	30.00	0.60	0.70	12.60	
	1	30.00	0.60	0.60	10.80	
	1	30.00	0.60	0.65	11.70	
	1	30.00	0.60	0.65	11.70	
	1	20.00	0.60	0.60	7.20	
	1	11.00	0.60	0.55	6.60	
		211.00				
R/s	1	30.00	0.60	0.65	11.70	
	1	30.00	0.60	0.65	11.70	
	1	30.00	0.60	0.60	10.80	
	1	30.00	0.60	0.55	9.90	
	1	30.00	0.60	0.60	10.80	
	1	30.00	0.60	0.65	11.70	
	1	20.00	0.60	0.60	7.20	
	1	11.00	0.60	0.60	6.60	
For road work						
5th cross Hoodi Layout (W0373)						
L/s	1	30.00	1.15	0.25	8.63	
	1	30.00	1.20	0.25	9.00	
	1	30.00	1.10	0.25	8.25	
	1	30.00	1.20	0.25	9.00	
	1	26.00	1.25	0.25	8.13	
R/s	1	30.00	1.20	0.30	10.80	
	1	30.00	1.15	0.30	10.35	
	1	30.00	1.10	0.25	8.25	
	1	30.00	1.20	0.25	9.00	
	1	26.00	1.15	0.30	8.97	
Damaged portion	1	25.00	5.50	0.30	41.25	
	1	30.00	5.60	0.25	42.00	
	1	10.00	5.60	0.25	14.00	
5th cross Hoodi Layout (W0312)						
L/s	1	30.00	1.15	0.25	8.63	
	1	30.00	1.20	0.25	9.00	
	1	12.00	1.30	0.30	4.68	
R/s	1	30.00	1.20	0.30	10.80	
	1	30.00	1.30	0.25	9.75	
	1	14.00	1.20	0.25	4.20	
SVN school road	2	30.00	1.20	0.25	18.00	

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	2	19.00	1.15	0.25	10.93		
	2	30.00	1.20	0.25	18.00		
	2	14.30	1.15	0.30	9.87		
					454.97		
					Cum		

14.04.2023

Asst. Engineer
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